



Class 150lb Concentric Lug Type DI Butterfly Valves



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Size 1 ½"-48"

Flange PN6/PN10/PN16/150LB/10K/Table D /Table E

Design EN593/API609/BS5155/ISO5211/EN1092

Mounting Flange ISO 5211

Testing Standard API598 ISO5208 EN12266-1



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Description

Lug Connection: The valve has threaded lugs on both sides of the valve body, allowing the valve to be bolted directly to the pipe flanges. This makes it suitable for applications where the valve may need to be isolated and removed without affecting the rest of the system.

Bidirectional Flow: The lug butterfly valve can be used in both directions, which is beneficial in systems where the direction of flow may change or needs to be controlled from either direction.

Compact Design: Like other butterfly valves, the lug butterfly valve has a compact and lightweight design compared to other valve types, making it ideal for applications with limited space.

Quick Operation: The butterfly valve is typically operated by a hand lever, Gear Box, electric actuator, or pneumatic actuator, offering quick and easy operation.

Low Pressure Drop: These valves are designed to offer minimal resistance to fluid flow, reducing energy consumption and optimizing system efficiency.

Corrosion and Wear Resistance: Lug butterfly valves can be made from various materials, such as stainless steel, cast iron, and ductile iron, which offer good resistance to corrosion and wear, depending on the application.

Applications:

- **Water Treatment:** Used to control flow in water and wastewater treatment plants.
- **HVAC Systems:** Used in heating, ventilation, and air conditioning systems to regulate air flow.
- **Piping Systems:** Common in industries like chemical, food processing, and oil & gas for isolating and controlling fluid flow.
- **Fire Protection:** Utilized in fire suppression systems to isolate pipelines.

Advantages:



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- **Ease of Maintenance:** The lug design allows the valve to be replaced or serviced without removing the entire pipeline, which is useful in systems where the pipeline cannot be easily disconnected.
- **Flexibility:** The valve can be mounted between two flanges, or between a flange and a blind flange, providing more installation flexibility than other valve types.
- **Compactness:** These valves are space-efficient and generally lighter than other valve types like gate or ball valves.

Working/Testing Pressure

Size	DN	40mm-300mm	350mm-1200mm
	Inch	1-1/2"-12"	14"-24"
Working		16bar	10bar
Testing	Shell	24bar	15bar
	Seal	17.6bar	11bar

Working Temperature

Seat Material	EPDM	NBR	FKM	PTFE
Temperature	-10°C to 120°C	-10°C to 80°C	-15°C to 200°C	-25°C to 180°C



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Material Specification

Part	Material
Body	Cast Iron Ductile Iron WCB CF8 CF8M CF3M Duplex Steel Al-Bronze
Disc	Ductile Iron CF8 CF8M CF3M Duplex Steel Al-Bronze Harlar Coated
Shaft	SS410 SS416 SS420 SS431 SS316 17-4PH
Seat	EPDM NBR PTFE FKM Silicone
Bushing	FRP PTFE Bronze
Lever	Malleable Iron Carbon Steel Aluminum SS316
Gear Box	Ductile Iron Aluminum SS316



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Corrosion Protection

Epoxy Resin Powder Spray, The minimum thickness is not less than 300 microns

Disc Options

Through shaft with Pin

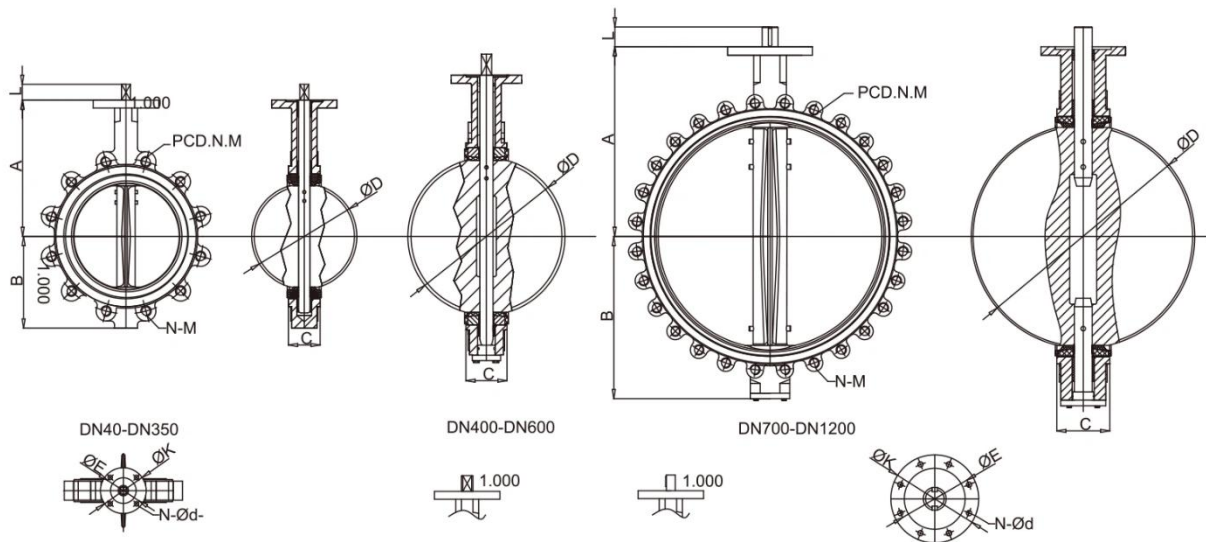
Pinless disc

Slim disc concentric design(DN50-DN350)

Seat Options

Cartridge rubber seat

Tongue and Groove/Replaceable Seat



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inch	mm													
1 1/2"	DN40	120	70	33	12.6	110	4-M16	65	50	4-7	9x9	-	26	F05
2"	DN50	161	80	43	12.6	125	4-M16	90	70	4-10	11x11	-	26	F07
2 1/2"	DN65	175	89	46	12.6	145	4-M16	90	70	4-10	11x11	-	30	F07
3"	DN80	181	95	46	12.6	160	8-M16	90	70	4-10	11x11	-	30	F07
4"	DN100	200	114	52	15.77	180	8-M16	90	70	4-10	11x11	-	30	F07
5"	DN125	213	127	56	18.92	210	8-M16	90	70	4-10	14x14	-	30	F07
6"	DN150	226	139	56	18.92	240	8-M20	90	70	4-10	14x14	-	40	F07
8"	DN200	260	175	60	22.1	295	8-M20	125	102	4-12	17x17	-	40	F10
10"	DN250	292	203	68	28.45	350	12-M20	125	102	4-12	22x22	-	40	F10
12"	DN300	337	242	78	31.6	400	12-M20	125	102	4-12	22x22	-	40	F10
14"	DN350	368	267	78	31.6	460	16-M20	125	102	4-12	22x22	-	40	F10
16"	DN400	400	309	102	33.15	515	16-M24	175	140	4-18	27x27	-	50	F14
18"	DN450	422	328	114	37.95	565	20-M24	175	140	4-18	27x27	-	70	F14
20"	DN500	480	361	127	41.12	620	20-M24	175	140	4-18	36x36	-	80	F14
24"	DN600	562	459	154	50.62	725	20-M27	210	165	4-23	36x36	-	80	F16
28"	DN700	624	520	165	63.35	840	24-M27	300	254	8-18	-	2-18	85	F25
32"	DN800	672	591	190	63.35	950	24-M30	300	254	8-18	-	2-18	95	F25
36"	DN900	720	656	203	74.7	1050	28-M33	300	254	8-18	-	2-20	118	F25
40"	DN1000	800	721	216	84.7	1160	28M-33	300	254	8-18	-	2-22	118	F25
48"	DN1200	941	864	276	104.7	1380	32-M26	350	298	8-22	-	2-28	154	F30



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